

GERMANIUM SMALL SIGNAL TRANSISTORS

PRO ELECTRON TYPES

Type	Polar- ity	V _{CB0} V Max	V _{EB0} V Max	V _{CE} V Max		@ V _{CB} V	I _{CB0} μA Max	h _{FE} Min Max	@ I _C mA	Cob pF Max	f _β MHZ Min	Pack Outline	Power Dissipation @25°C MW
AC107 AC116 AC117	P P P	15 30 32	12 10	18 18		6 6	8 18	35- 50-140 40-	300 ¹ 20 150	21 ²		TO-1 NS257 NS257	80 145 260
AC121—IV AC121—V AC121—VI AC121—VII	P P P P	20 20 20 20	10 10 10 10	20 20 20 20				30-60 50-100 75-150 125-250	100 100 100 100	40 40 40 40	1.5 ² 1.5 ² 1.5 ² 1.5 ²	TO-1 TO-1 TO-1 TO-1	900 900 900 900
AC122 AC122/30 AC123 AC124 AC125	P P P P P	30 45 45 45 32	18 12 12 10 10	18 32 32 32 12		6 6 6 6 10	8 8 8 18 10	40-200 40-200 50-140 40-170 50-	2 ¹ 2 ¹ 20 150 2	21 ² 21 ² 21 ²		TO-1 TO-1 NS257 NS257 TO-1	130 130 145 260 500
AC126 AC127 AC128 AC128K	P N P P	32 32 32 32	10 10 10 10	12 12 16 16		10 10 10 10	10 10 10 10	65- 50- 55-175 55-175	2 500 50 50	50 70 ² 100 100	1.7 2.5 1.0 1.0	TO-1 TO-1 TO-1 NS257	500 340 1,000 1,000
AC130 AC131 AC132 AC138 AC139	N P P P P	20 30 32 32 32	10 10 10 10 10	18 12 20 20 20		6 0.5 10 10 10	18 10 15 15 15	40- 135 ² - 30- 40-160	150 20 5 ¹ 400	40 ²	2.0 1.3	TO-1 TO-1 TO-1 TO-1 TO-1	212 500 720 720 720
AC141 AC142 AC142K AC151 AC152	N P P P P	32 32 32 32 32	10 10 10 10 10	18 20 20 2Y 2Y		10 10 10 10 0.5	35 15 15 10 10	40-160 40-160 40-160 30 ¹ - 30-150	400 400 400 2 100	27 ² 40	1.5 ² 1.5 ²	TO-1 TO-1 NS257 TO-1 TO-1	720 720 860 900 900
AC153 AC153K AC162 AC163	P P P P	32 32 32 32	10 10 10 10	18 18 2Y 2Y		10 10 10 10	10 10 10 10	50-250 50-250 100 ² 65-	300 300 50 2	100 100 40 40	1.0 1.0 1.3 1.7	TO-1 NS257 TO-1 TO-1	1,000 1,000 900 900
AC173 AC176 AC178 AC179 AC180	P N P N P	32 32 20 20 32	10 10 10 10 20	2Y 18 15 15 16		10 6 6 6	35 35 10 ²	50- 50-250 60- 60- 50-250	2 ¹ 300 150 150 600	100 ²	1.0 1.0 2.5 ²	TO-1 TO-1 NS257 NS257 TO-1	200 700 180 180 600
AC180K AC181 AC181K AC182 AC183	P N N P N	32 32 32 32 32	20 20 20 20 20	16 16 16 18 16				50-250 50-250 50-250 50- 50-	600 600 600 1 ¹ 2 ¹	2.5 ² 4.5 ² 4.5 ² 4.0 ² 4.0 ²	NS257 TO-1 NS257 TO-1 TO-1	2,500 600 2,500 200 250	
AC184 AC185 AC187 AC187K AC188	P N N N P	32 32 25 25 25	20 20 10 10 10	16 16 15 15 15		10 10 10 10	35 35 15	50-250 50-250 100-500 100-500 100-500	300 300 300 300 300	180 180 110	2.5 ² 2.5 ² 1.0 1.0 1.0	TO-1 TO-1 TO-1 NS257 TO-1	600 600 1,000 1,000 1,000
AC188K AC193 AC193K AC194 AC194K	P P P N N	25 32 32 32 32	10 10 10 10 10	15 15 15 15 15		10 10 10 10 10	15 15 15 35 35	100-500 90-400 90-400 90-400 90-400	300 400 400 400 400	100 40 ² 40 ² 80 ² 80 ²	1.0 3.0 ² 3.0 ² 5.0 ² 5.0 ²	NS257 TO-1 TO-1 TO-1 TO-1	1,000 220 260 220 260
ACY11 ACY14 ACY17 ACY18 ACY19	P P P P P	32 32 70 50 50	16 16 12 12 12	30 30 32 30 30		5 5 6 6 6	12 12 10 10 10	38- 54- 50-150 40-120 80-250	10 10 300 300 300	35 35 40 40 40	0.4 0.4 1.0 1.0 1.3	TO-1 TO-1 TO-5 TO-5 TO-5	150 150 200 200 200
ACY20 ACY21 ACY22 ACY23 ACY27		40 40 20 32 40	12 12 12 16 30	20 20 15 30 20		6 6 6 30	10 10 10 12	50-145 90-250 30-300 50- 20-55	50 50 300 1 ¹ 1 ¹	40 40 40 0.5 40	1.0 1.3 1.0 1.0 1.0 ²	TO-5 TO-5 TO-5 TO-1 TO-1	200 200 200 900 200
ACY28 ACY29 ACY30 ACY31 ACY32	P P P P P	40 40 40 40 32	30 30 40 20 16	15 15 20 30 30		30 30 30 12 10	12 12 12 5 10	45-150 45-150 60-200 35-70 50-150	1 ¹ 1 ¹ 1 ¹ 1 ¹ 1 ¹	40 40 40 40 27 ²	1.0 ² 1.0 ² 1.0 ² 1.0 ² 0.5	TO-1 TO-1 TO-1 TO-1 TO-1	200 200 200 200 900

¹hfe
²typical

CASE OUTLINE DRAWINGS & DIMENSIONS

Technical drawing of a mechanical part with dimensions:

- Top view:
 - Overall width: .335
 - Inner width: .370
 - Inner width: .205
 - Inner width: .335
 - Height of top section: .260
 - Height of bottom section: .240
 - Overall height: 1.50 MIN
 - Left side thickness: .008
 - Left side thickness: .125
 - Bottom thickness: .019
 - Bottom thickness: .016
- Bottom view:
 - Overall width: .200
 - Overall width: .100
 - Radius: R.029
 - Radius: .045
 - Angle: 45°
 - Bottom thickness: .034
 - Bottom thickness: .028

Technical drawing of a 1/2-20 UNF-2A plug gage. The drawing shows a cross-section of the gage with various dimensions and feature callouts. The top section is a hexagonal head with a diameter of .510 MAX. The head has a central hole with a diameter of .100 ± .010 and a depth of .200 ± .010. The head is labeled with 'C', 'B', and 'E'. The head is attached to a shaft with a diameter of .437 ± .010. The shaft has a length of 1.500 MIN. The shaft is attached to a base with a diameter of .850 MAX. The base has a length of .445 ± .010. The base is attached to a threaded section with a diameter of .035 MAX. The threaded section has a length of .335 ± .010. The threaded section is labeled with '1/2-20 UNF-2A'.

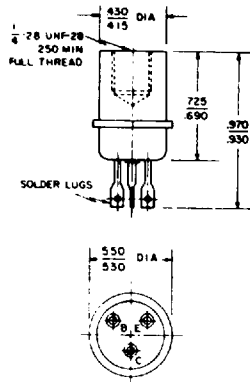
Technical drawing of a transistor package showing side and top views with dimensions:

- Side View Dimensions:**
 - Top width: 1.250 DIA. MAX.
 - Base width: 1.005 DIA. MAX.
 - Base thickness: .210
 - Lead thickness: .180
 - Lead length: .360 MAX.
 - Lead diameter: .500
 - Lead diameter at base: .375
 - Lead diameter at emitter: .312
 - Lead diameter at base (bottom): .210
 - Lead diameter at emitter (bottom): .610 MAX.
 - Thread specification: 10-32 UNF-2A
 - Lead diameter at emitter (bottom): .137
 - Lead diameter at emitter (bottom): .123
- Top View Dimensions:**
 - Base diameter: .140 DIA. MAX.
 - Base diameter: .345 R
 - Emitter diameter: .345 R

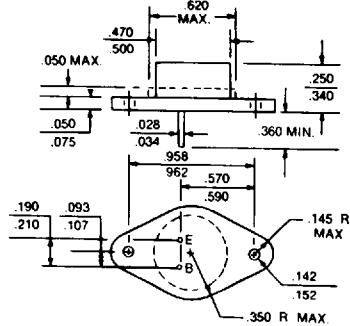
GERMANIUM POWER TRANSISTORS

CASE OUTLINE DRAWINGS & DIMENSIONS

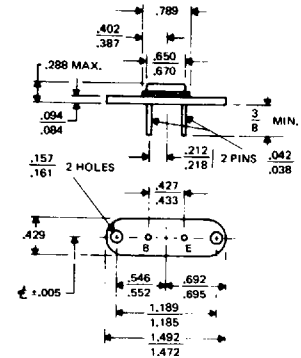
TO-13



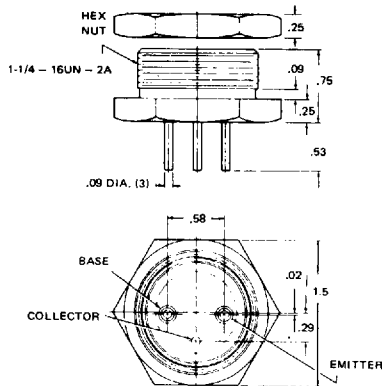
TO-66



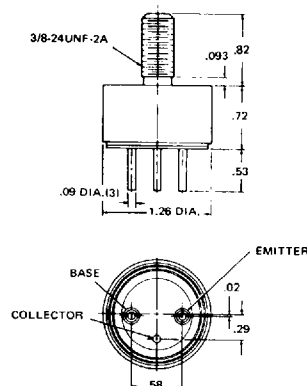
MS-7



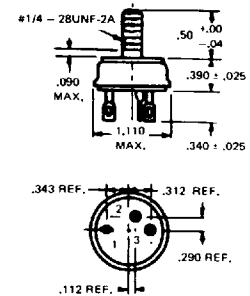
MT-22



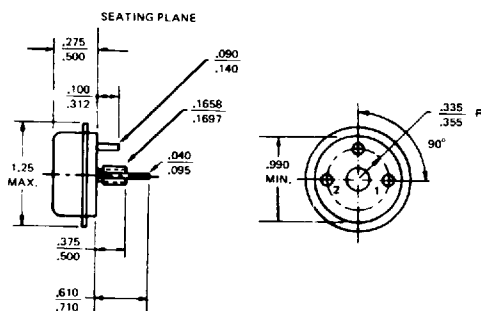
MT-23



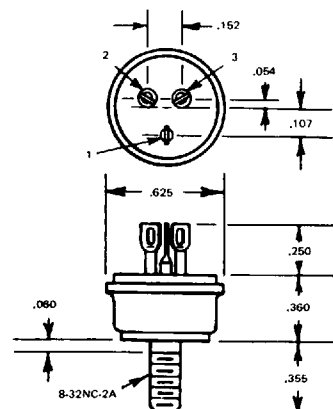
MT-7



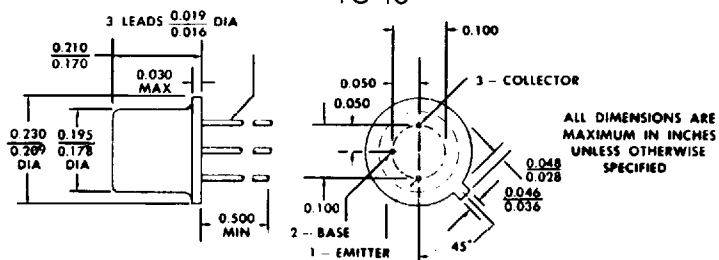
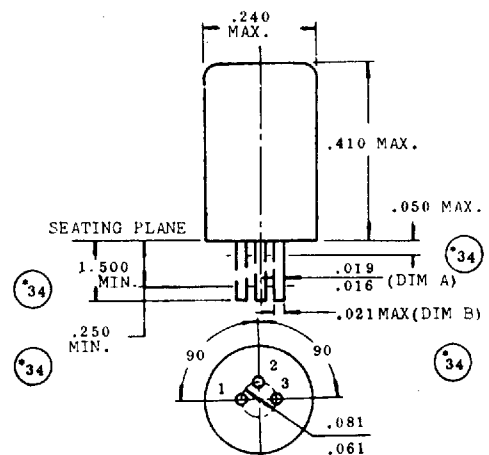
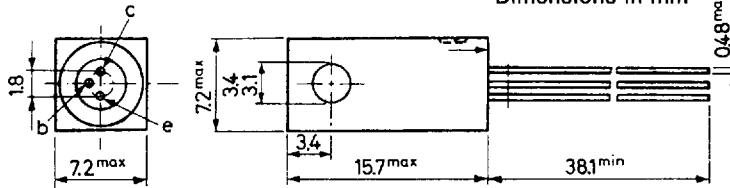
TO-68



MT-36



CASE OUTLINE DRAWINGS & DIMENSIONS



ALL JEDEC TO-18 DIMENSIONS
AND NOTES ARE APPLICABLE.



ERMANIUM POWER DEVICES CORP.

300 Brickstone Square • York Street • P.O. Box 3065
Shawsheen Village Station • Andover, Massachusetts 01810
Telephone (508) 475-5982 • FAX (508) 470-1512

26

Printed in U.S.A.

3947375 0000689 52T

54134